

# Safety Data Sheet

NOTE: Access to a copy of this Safety Data Sheet (SDS) via our Website does not constitute the issue of a controlled Copy under EU legislation. To be issued with such a copy please contact Rentokil Initial at the address below by telephone, fax or in writing. In order to confirm the latest version of the SDS for this product see web: [www.ri-research.com](http://www.ri-research.com) and click on Technical Information / Product Safety.

**REVISION (see box 16)**

Issue : 05 13 :12 : 2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
<b>Product Name</b>	<b>FLY KILLER PEN</b> <span style="float: right;"><b>HSE 7393</b></span>
<b>Description</b>	A liquid insecticide contained in a pen-type applicator. For amateur use against flies, ants, mosquitoes and other insects indoors in domestic situations. For use on most hard surfaces, particularly around windows and doorways.
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 01342 833022 E-mail: <a href="mailto:eurotech.techinfo@rentokil-initial.com">eurotech.techinfo@rentokil-initial.com</a>

2 HAZARD IDENTIFICATION	
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>	
<b>X<sub>i</sub> Irritant</b>	R36 Irritating to eyes.
<b>N Dangerous for the environment</b>	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>	
Prolonged contact may cause dryness to skin.	
No other significant adverse effects expected under normal conditions of handling and use.	

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification
1.5	Cypermethrin* / (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS, 3RS;1RS, 3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate EINECS : 257-842-9 CAS : 52315-07-8	X <sub>n</sub> : R20/22 X <sub>i</sub> : R37 N : R50,53
>2.5 ≤10.0	Non-ionic surfactant* / alcohol ethoxylate EINECS : Not available CAS : Not available	X <sub>i</sub> : R41

## FLY KILLER PEN

#### 4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)

<b>Inhalation</b>	This route of exposure is not anticipated.
<b>Eye Contact</b>	Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.
<b>Emergency Equipment Suggested</b>	Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

#### 5 FIRE FIGHTING MEASURES

<b>Fire Extinguisher Type</b>	Use powder, sand, foam, water-spray, water-fog or water-mist extinguishers.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.
<b>Special Exposure Hazards</b>	Irritating fumes may be evolved in the event of a fire.

#### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions (See also box 8)</b>	Wear suitable personal protective equipment.
<b>Environmental Precautions</b>	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
<b>Clean-up Procedure (See also box 13)</b>	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal. If the pen has split, dispose of it. However, if the pen is intact it can be re-used.

#### 7 HANDLING AND STORAGE (SEE ALSO BOX 8)

<b>Handling</b>	No specific handling requirements.
<b>Storage</b>	Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Not assigned.
<b>Engineering Controls</b>	Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:
<b>Eye Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Hand Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Skin Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Breathing Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odour</b>	A colourless to light brown mobile liquid, with a slight detergent odour. Contained within a plastic pen-type applicator.		
<b>pH</b>	~ 4.5	<b>Solubility in Water</b>	Miscible.
<b>Density</b>	1.0 at 20°C	<b>Solubility in Other Solvents</b>	Not determined.
<b>Flash Point</b>	Not applicable.	<b>Explosive Properties</b>	Not determined.
<b>Flammability</b>	Non-flammable.	<b>Combustibility</b>	Non-combustible.
<b>Boiling Point/Range</b>	Not determined.	<b>Oxidising Properties</b>	Not determined.
<b>Vapour Density</b>	Not determined.	<b>Evaporation Rate</b>	Not determined.
<b>Vapour Pressure</b>	Not determined.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not determined.	<b>Other Data</b>	None.

### FLY KILLER PEN

## 10 STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>Materials to avoid</b>	None known.
<b>Hazardous Breakdown Products</b>	Irritating fumes may be evolved in the event of a fire.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

<b>Acute Toxicity</b>	Oral	For cypermethrin: LD <sub>50</sub> (rat): 55.7 – 1500 mg/kg
	Inhalation	For cypermethrin: LD <sub>50</sub> : 2.5 g/m <sup>3</sup>
	Dermal	For cypermethrin: LD <sub>50</sub> : 2460 mg/kg
<b>Corrosivity/Irritation</b>	Skin	Prolonged contact may cause dryness of the skin.
	Eyes	Irritating to eyes.
	Respiratory tract	Unlikely to be hazardous in normal use.
<b>Sensitisation</b>	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	Fertility	Product does not contain any components known to have effects on fertility.
	Development	Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		If ingested may cause irritation to throat and stomach.


## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	This product is classified as very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
<b>Ecotoxicity Data</b>	For cypermethrin: LC <sub>50</sub> (Rainbow trout) (96h): 0.69 µg/L LC <sub>50</sub> ( <i>Daphnia</i> ) (48h): 0.15 µg/L
<b>Mobility</b>	Not determined.
<b>Persistence and Degradability</b>	Biological degradation of cypermethrin is rapid.
<b>Bioaccumulative Potential</b>	Not determined.
<b>Other Adverse Effects</b>	Dangerous for the environment if discharged into watercourses.

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	This product is dangerous for the environment. Do not discharge waste washings or waste products to sewers, drains or watercourses.  This product is for amateur use only and can therefore be disposed of as normal household waste. However, if used in a place of work, ensure this product is disposed of as hazardous waste, in accordance with the appropriate regulations.				
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: H14 - Ecotoxic				
<b>Note for Disposal</b>	<table><tr><td><u>Components making the waste hazardous</u></td><td><u>Concentrations (%)</u></td></tr><tr><td>Cypermethrin</td><td>1.5</td></tr></table> For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44 (0) 870 850 6506.	<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u>	Cypermethrin	1.5
<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u>				
Cypermethrin	1.5				

## FLY KILLER PEN

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3082	Tremcard Reference No.	CEFIC TEC (R)-90GM6-III	RIS Code
Transport Category	3	UK Hazchem EAC	2X	FF74
ADR 2007 (International Road)	Class 9 ADR HIN 90			Labels
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Contains cypermethrin)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5L. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2006 (Sea)	Class 9 IMDG EMS F-A, S-F			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Contains cypermethrin)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5L. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))	
Safety Phrases	<p>S2 : Keep out of the reach of children.</p> <p>S25 : Avoid contact with eyes.</p> <p>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S35 : This material and its container must be disposed of in a safe way.</p> <p>S46 : If swallowed, seek medical advice immediately and show this container or label.</p> <p>To avoid risks to man and the environment, comply with the instructions for use.</p>
Additional Label Phrases	
Legislation	<p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.</p> <p>The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate.</p>

16 Other Information and indication of revisions	
Packaging Information	A plastic pen-like applicator containing 30 mL of liquid insecticide, in a cardboard-backed blister pack.
Revisions	Changes have been made to the content of boxes 01, 02, 04, 05, 06, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R20/22 : Harmful by inhalation and if swallowed.</p> <p>R37 : Irritating to respiratory system.</p> <p>R41 : Risk of serious damage to eyes.</p> <p>R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</p>

## FLY KILLER PEN

SDS No. 792

Issue : 05

13 : 12 : 2007

Page 4 of 4

**Before using any product, ensure that you read and understand its label.**

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.

Copyright © (2008) Rentokil Initial plc, European Technical Centre, Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom.

Telephone: +44 (0) 1293 858000 Fax: +44 (0) 1342 836180 Web: [www.ri-research.com](http://www.ri-research.com)